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basic imagery interpretation report

## Soviet Mobile Missile Summary

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DEPLOYED STRATEGIC SSM FACILITIES  
BE: VARIOUS  
USSR

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## **Soviet Mobile Missile Summary**

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**List of Acronyms and Abbreviations**

AAD	Azimuth Alignment Device
APC	Armored Personnel Carrier
can/cap	canister/capsule
CC&D	Camouflage, Concealment, and Deception
C3	Command, Control, and Communications
CP/BNK	Command Post/Bunker
CPLX	Complex
CSF	Complex Support Facilities
CTA	Crew Training Area
DDTA	Dispersal Driver-Training Area
DIV	Division
FTA	Field Training Area
FTX	Field Training Exercise
GSA	General Support Area
GSE	Ground Support Equipment
HP/TD	Hardpoint/Tiedown
ICBM	Intercontinental Ballistic Missile
IRBM	Intermediate-Range Ballistic Missile
km	kilometer(s)
LAD	Launch Assist Device
LP	Launch Position
LRP	Launch Reference Position
LTS	Launch Test Site
MHF	Missile Handling Facility
MOB	Mobile Missile Base
MRACA	Missile Receiving and Checkout Area
MRB	Missile-Ready Building/Bunker
MRBM	Medium-Range Ballistic Missile
MSE	Missile Support Equipment
MSRD	Missile Support Rear Depot
MSTC	Missile/Space Test Center
MSV	Missile Support Van
MTC	Missile Test Center
nm	nautical mile
NPHF	Nuclear Payload Handling Facility
NPIC	National Photographic Interpretation Center
NWHF	Nuclear Warhead Handling Facility
PBV	Postboost Vehicle
PGCS	Propulsion Guidance Control Section
PHF	Payload Handling Facility
POE	Piece(s) of Equipment
RAD	Radio
RADCOM	Radio Communications
RCVR	Receiver
REGT	Regimental
R&D	Research and Development
RIC	Receiving, Inspection, and Checkout
RIM	Receiving, Inspection, and Maintenance
RISA	Receiving/Inspection/Storage Area
RTP	Rail-to-Road Transfer Point
RVT	Revetment
SBG	Single-Bay Garage
SMRA	Silo Materials Receiving Area
SRF	Strategic Rocket Forces
SSM	Surface-to-Surface Missile
TEL	Transporter-Erector-Launcher
TSA	Temporary Support Area
UHF/VHF	Ultra High Frequency/Very High Frequency
XMTR	Transmitter

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**TABLE OF CONTENTS**

SUMMARY.....	1
HIGHLIGHTS.....	1
DISCUSSION.....	3
<b>DEPLOYED COMPLEXES AND C3 ACTIVITY</b>	
Eastern USSR .....	3
Chita SRF Army .....	3
Drovyanaya.....	3
Central USSR.....	3
Omsk SRF Army .....	3
Novosibirsk.....	3
Orenburg SRF Army.....	3
Verkhnyaya Salda.....	3
Unknown SRF Army.....	3
Barnaul .....	3
Kansk .....	16
Vladimir SRF Army .....	23
Yurya.....	23
Western USSR .....	24
Smolensk SRF Army .....	24
Dyatlovo .....	24
Lida .....	24
Polotsk .....	25
Postavy.....	25
Slonim.....	25
Vinnitsa SRF Army .....	25
Gresk .....	25
Kivertsy .....	25
Romny .....	25
Lebedin.....	25
Mozyr .....	25
<b>SS-20 FIELD TRAINING EXERCISES</b>	
Drovyanaya.....	25
Novosibirsk.....	26
Yurya.....	26
Lida .....	26
<b>MISSILE SUPPORT REAR DEPOTS</b>	
Balta.....	26
Glazov.....	26
Novaya Mezinovka .....	26
<b>MISSILE TEST CENTERS</b>	
Kapustin Yar .....	26
Plesetsk.....	30
<b>MISSILE-RELATED R&amp;D AND PRODUCTION FACILITIES</b>	
Bryansk .....	35
Volgograd.....	35
<b>CAMOUFLAGE, CONCEALMENT, AND DECEPTION</b>	
CC&D at Deployed Complexes and MSRDs .....	35
CC&D Activity at MTCs .....	39
<b>TABLES AND CHARTS.....</b>	<b>40</b>

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- iii -

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**SOVIET MOBILE MISSILE SUMMARY**

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**SUMMARY**

1. This report updates information in NPIC report [ ] on significant mobile missile activity observed at SS-20 mobile IRBM bases, C3 facilities, MSRDS, two offensive missile test centers, and missile-related R&D and production facilities in the USSR (Figure 1). In addition, this report includes a listing of SS-20 FTXs observed during the period, CC&D activity at mobile missile-related facilities, and significant activity derived from missions [ ] (TSR)

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**HIGHLIGHTS**

2. Significant activity/observations during the reporting period included the following:

	Paragraph(s)	Figure(s)	
a. Six FTXs at Drovyanaya on [ ]	5— 7	2— 8	25X1
b. WOOD BINE antenna and several communications vehicles at Verkhnyaya Salda SSM Complex CP/BNK;	14	12	
c. Open SBG(s) and stationary SS-20 vehicle mockups at Barnaul Mobile IRBM Base 1;	15— 17	13, 14	
d. Delivery of SBG components and continuing construction at Barnaul Mobile IRBM Base 2;	18, 19	15, 16	
e. Identification of a third SS-20 mobile IRBM base under construction at Barnaul;	20, 21	17, 18	
f. WOOD BINE antenna identified in the division C3 facility at Barnaul SS-20 Support Complex;	22	19	
g. Continued construction at Kansk Mobile IRBM Base 1;	23— 28	20— 24	
h. Emplacement of hardstands in SBG foundations and continued construction at Kansk Mobile IRBM Base 2;	29		
i. New FTA at Yurya;	32	25	
j. New FTA near Lida Mobile IRBM Base 1;	35	27	
k. First identification of a TWIN EAR antenna at Slonim IRBM REGT HQ/BNK;	40		
l. Resubordination of Gresk IRBM Regiment;	41, 42	28	
m. Field training activity at three CTAs and at the Kapustin Yar Bivouac Troop/Training Area;	53— 56	31	
n. Pre- and postlaunch activity as well as SBG dismantlement and reconstruction at Plesetsk LTS 23;	69— 72	33	
o. Construction of a probable launch control silo and a probable rail-served structure in the newly identified missile-associated construction area at Plesetsk;	78	37	
p. Canopy structures at five of the 15 converted SS-4 and SS-5 launch sites. (S/WN)	87	40	

3. The reporting period extended from [ ] One location map, 40 annotated photographs, two tables, and one chart are included in this report. (S/WN)

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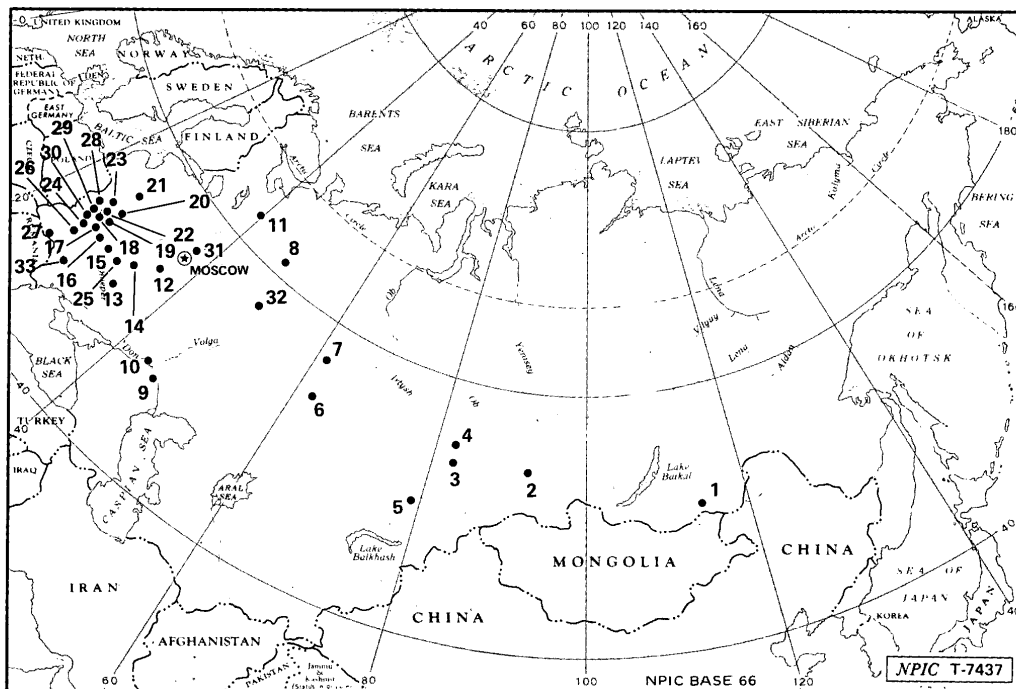


FIGURE 1. LOCATIONS OF SS-16/20 ACTIVITY IN THE USSR

Item	Installation Name	BE No	Item	Installation Name	BE No
1	Drovyanaya Mobile IRBM Base 1		12	Serpukhov SSM Engineering Research Training Facility	
	Drovyanaya Mobile IRBM Base 2		13	Lebedin Mobile IRBM Base 1	
	Drovyanaya Mobile IRBM Base 3			Lebedin Payload Handling Facility	
	Drovyanaya Mobile IRBM Base 4		14	Bryansk Guided Missile Support Equipment Plant II	
	Drovyanaya Mobile IRBM Base 5		15	Rechitsa Mobile IRBM Support Base	
	Drovyanaya SS-20 Remote Site 1			Rechitsa Mobile IRBM Base 1A	
	Drovyanaya SS-20 Payload Handling Fac			Rechitsa Mobile IRBM Base 1B	
2	Kansk Mobile IRBM Base 1			Rechitsa Mobile IRBM Base 1C	
	Kansk Mobile IRBM Base 2		16	Mozyr Mobile IRBM Base	
	Kansk SS-20 Support Complex		17	Konkovichi Mobile IRBM Base	
3	Barnaul Mobile IRBM Base 1		18	Novaya Mezinovka Missile Support Rear Depot	
	Barnaul Mobile IRBM Base 2		19	Gresk Mobile IRBM Base 1	
	Barnaul Mobile IRBM Base 3		20	Postavy Mobile IRBM Base	
	Barnaul SS-20 Support Complex		21	Polotsk Mobile IRBM Base 1	
4	Novosibirsk Mobile IRBM Base 1			Polotsk Mobile IRBM Base 2	
	Novosibirsk Mobile IRBM Base 2		22	Minsk Motor Vehicle and Guided Missile Support Plant	
	Novosibirsk Mobile IRBM Base 3		23	Smorgon Mobile IRBM Base 1	
	Novosibirsk Mobile IRBM Base 4			Smorgon Mobile IRBM Base 2	
	Novosibirsk Mobile IRBM Base 5		24	Kozhanovichi Mobile IRBM Base	
	Novosibirsk Mobile IRBM Base 6		25	Krolevets Mobile IRBM Base 1	
5	Semipalatinsk NWPG		26	Kivertsy Mobile IRBM Base 2	
6	Bobrovskiy Missile Support Rear Depot			Kivertsy	
7	Verkhnyaya Salda Mobile IRBM Base 1		27	Lutsk Mobile IRBM Base 1	
	Verkhnyaya Salda Mobile IRBM Base 2		28	Lida Mobile IRBM Base 1	
	Verkhnyaya Salda Mobile IRBM Base 3		29	Dyatlovo Mobile IRBM Base 1	
	Verkhnyaya Salda Mobile IRBM Base 4			Dyatlovo Payload Handling Facility	
	Verkhnyaya Salda Mobile IRBM Base 5		30	Sionim Mobile IRBM Base 1	
8	Yurya Mobile IRBM Base 1		31	Krasnoarmeysk Solid Motor Development Facility	
	Yurya Mobile IRBM Base 2		32	Glazov Missile Support Rear Depot	
	Yurya Mobile IRBM Base 3		33	Balta Missile Support Rear Depot	
	Yurya Mobile IRBM Base 4				
	Yurya Mobile IRBM Base 5				
9	Kapustin Yar Missile/Space Test Center SSM				
10	Volgograd Steel and Machinery Plant Krasnyy Barricada 221				
11	Plesetsk Missile/Space Test Center SSM				

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## DISCUSSION

## Deployed Complexes and C3 Activity

4. As of [ ] 39 of the 43 mobile IRBM bases were either in the late stages of construction or complete and were assessed as being capable of maintaining an operational unit. Based on previous construction, the 43 bases and the remote site at Drovyanaya will contain 390 SBGs to house SS-20 missiles on launchers. Five of the bases are in the eastern section of the USSR, 21 are in the central section of the USSR, and 17 are in the western section of the USSR. The status of the deployed complexes and C3 activity is presented in Tables 1 and 2 at the end of this report. (S/WN)

## Eastern USSR

## Chita SRF Army

5. **Drovyanaya SSM Complex** [ ] On [ ] six SS-20 FTXs were observed field deployed in the Drovyanaya SSM Complex (Figure 2). (Three of these six had also been observed on [ ] Two FTXs were underway near Drovyanaya Mobile IRBM Base 5: at Drovyanaya FTA 012 [ ] and Drovyanaya FTA 013 [ ] At FTA 012, a camouflaged SS-20 launch battalion consisting of three SS-20 TELs with canisters and nine SS-20-associated vehicles was present (Figure 3). At FTA 013, a camouflaged SS-20 C3 unit consisting of seven MSVs, five SS-20-associated vehicles, two trucks (not camouflaged), and two tents was observed. A ground-mounted antenna mast was discernible near a camouflaged probable [ ] meter MSV (Figure 4). In the general support area of Mobile IRBM Base 5, a truck-mounted TWIN EAR troposcatter antenna in travel mode and associated generator trucks, an APC, and one truck were in front of the open doors of two 11-bay garages. The vehicles appeared to be preparing to depart the base, probably to go to FTA 013, where the C3 unit was deployed. (S/WN)

6. On [ ] three other SS-20 FTXs were underway near Drovyanaya SSM RTP (BE [ ] at Drovyanaya FTA/R 015 [ ] Drovyanaya FTA 016 [ ] and Drovyanaya FTA 017 [ ] At FTA/R 015, a camouflaged probable SS-20 launch battalion consisting of three SS-20 TELs with canisters and five SS-20-associated vehicles was present (Figure 5). At FTA/016, a camouflaged SS-20 launch battalion consisting of three SS-20 TELs with canisters, 11 SS-20-associated vehicles, and one 40-man tent was observed. In addition, four road barricades were discernible on two main access roads to the FTX (Figure 6). At FTA 017, a camouflaged SS-20 C3 unit consisting of at least six SS-20-associated vehicles was observed (Figure 7). (S/WN)

7. The sixth FTX observed on [ ] was at Drovyanaya FTA/R 002 [ ] A camouflaged SS-20 launch battalion consisting of three SS-20 TELs with canisters, six SS-20-associated vehicles, and one small tent was present (Figure 8). Three road barricades were on the main access road to the FTA. (S/WN)

8. **Drovyanaya Mobile IRBM Base 1.** On [ ] three SS-20 TELs with training canisters, one MAZ-543 cargo truck, and one modified MAZ

six-axle chassis were in the vehicle maintenance area of this base (Figure 9). While SS-20 TELs with training canisters are often parked on the vehicle aprons outside the vehicle storage garages at SS-20 mobile bases, normally only one SS-20 TEL with training canister is assigned/stored at each SS-20 base. Additionally, the modified MAZ six-axle chassis, with the passenger cab mounted over the front axle of the chassis, was last observed in the Drovyanaya SSM Complex on [ ] in the vehicle maintenance/storage area of Drovyanaya SSM RTP, 3.5 nm northwest of Mobile Base 1. (S/WN)

9. **Drovyanaya Mobile IRBM Base 4.** On [ ] two probable retractable antenna masts were discernible on the roof of one of the three four-bay garages in the operations area. The masts, 10 meters high and deployed in pairs on each garage, are probably retracted through small roof-mounted blocks into a bay believed to house a [ ] MSV. (S/WN)

10. **Drovyanaya Mobile IRBM Base 5.** On [ ] at least ten stationary mockups of SS-20 TELs and MSVs were under construction, approximately 100 meters west of the two 11-bay garages in the general support area (Figure 10). By [ ] the stationary mockups had been camouflaged with dark-toned canvas (Figure 11). (S/WN)

## Central USSR

## Omsk SRF Army

11. **Novosibirsk Mobile IRBM Base 1.** Construction on a large C-shaped building in the general support area had resumed by [ ] The foundation for this building had been excavated in late 1977, but work had not progressed beyond initial construction. On [ ] a crane and construction materials were near the building foundation. (S/WN)

12. **Novosibirsk Mobile IRBM Base 6.** On [ ] a mobile TWIN EAR troposcatter antenna was in the travel mode near the ten-bay garage in the regimental C3 area. (S/WN)

13. **Novosibirsk IRBM RTP** [ ] On [ ] a chemical decontamination unit, deployed between the RTP and FTA/R 001 [ ] since at least [ ] appeared to be departing the area. At the height of its activity, this unit contained two TMS-65s, three ARS-14s, five BRDM 2 RKHs, and one AGV decontamination set. Twenty-three tents were also present. (S/WN)

## Orenburg SRF Army

14. **Verkhnyaya Salda SSM Complex CP/BNK.** The WOOD BINE satellite communications vehicle, its associated support vehicle, and several other communications-related vehicles, all present since [ ] had been covered with camouflage netting (Figure 12) by [ ] the type C satellite communications station (under construction since March) was in the late stage of construction; no antennas, however, were visible on the antenna pedestals. (S/WN)

## Unknown SRF Army

15. **Barnaul Mobile IRBM Base 1.** On [ ] the sliding roof of one type B SBG was open and

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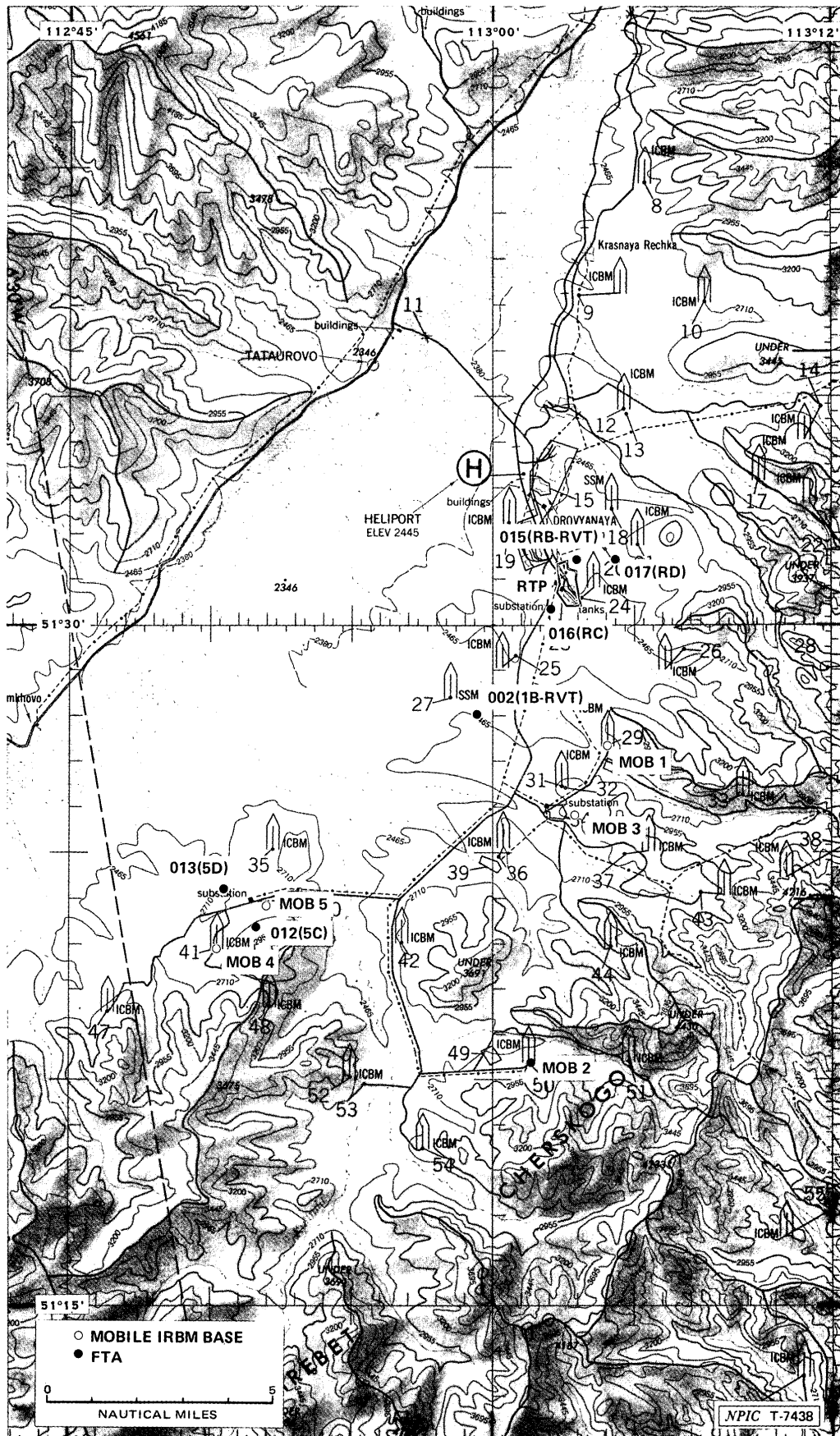


FIGURE 2. SS-20 FTxs AT DROVYANAYA SSM COMPLEX

- 4 -

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two oval-shaped pieces of dark-toned netting were over the entire opening (Figure 13). A high level of activity was also observed in other areas of the base: six MSVs were on the parking apron in front of the 11-bay garage in the general support area, and two MSVs were near a five-bay garage in one of the three battalion areas. (S/WN)

16. On [ ] in another one of the battalion areas, the sliding roofs of two type B SBGs were open and entirely covered with two oval-shaped pieces of dark-toned netting (Figure 14). The SBG that had been open on [ ] was closed and the netting removed. In addition, the high level of activity observed on [ ] was continuing. (S/WN)

17. On [ ] three and possibly four stationary SS-20 vehicle mockups were under construction immediately outside the easternmost launch battalion security fence. These mockups had been under construction since at least [ ] (S/WN)

18. **Barnaul Mobile IRBM Base 2.** On [ ] SBG components were delivered to the operations area near an SBG foundation and were net covered. A truck-mounted crane, near these net-covered components, was offloading materials from a flatbed trailer (Figure 15). (S/WN)

19. By [ ] additional SBG components had been delivered to the base. On [ ] (when last observed), three of the nine SBGs were externally complete, a fourth was in the midstage of construction with four corner posts and six wall stanchions emplaced, and the remaining five SBGs were in the early stages of construction. The three five-bay garages were almost externally complete with parking aprons emplaced at each (Figure 16). In the general support area at the regimental-level SS-20 C3 facility, a 30-meter lattice tower was on the ground by a small, square excavation near the

three-story C3 building. The C3 building and the C3-associated nine- and 11-bay garages were nearly externally complete. A roof-mounted antenna array was not visible on the roof of the C3 building. Approximately eight other support buildings were in various stages of construction in the administration/housing area. (S/WN)

20. **Barnaul Mobile IRBM Base 3.** This scratch-built base is the 43rd IRBM base identified in the Soviet Union and the third in the Barnaul complex. The base, first observed on imagery of [ ] approximately 27 nm east of Barnaul, consists of an operations area and a general support area. On previous imagery of [ ] construction was not observed. On [ ] the operations area was double fence secured and contained nine SBG foundations, two five-bay garages in the late stage of construction, and footings for a third five-bay garage (Figure 17). In the general support area, a regimental-level SS-20 C3 facility was in the mid-stage of construction and contained one rectangular three-story C3 building and two C3-associated multibay garages. In addition, approximately six support buildings were under construction in the administration/housing area. A fence-secured temporary construction support area was adjacent to the base. (S/WN)

21. On [ ] the nine SBGs were in various stages of construction in the operations area. One SBG was in the late stages of construction, requiring only the installation of roof panels; a second was in the midstage of construction with four corner posts and six wall stanchions emplaced; and the remaining seven SBGs were in the early stages of construction. Two five-bay garages were externally complete, and the third five-bay garage was in the late stages of construction. Since [ ] SBG components had been delivered to the base and stacked in the center of the operations area (Figure 18). In the general support area

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at the regimental-level SS-20 C3 facility, the rectangular, three-story C3 building was externally complete, and the C3-associated nine and 11-bay garages were in the late stage of construction. In addition, construction was continuing on the administration/housing area; concrete paving blocks were being laid within the facility and on the main access road. (S/WN)

22. **Barnaul SS-20 Support Complex.** On [ ] a WOOD BINE satellite communications vehicle and a support vehicle were in the externally complete division-level C3 facility at the support complex. The WOOD BINE and a support vehicle were cable connected to the rectangular three-story C3 building, and camouflage netting was being placed over 12 to 15 communications vehicles parked nearby (Figure 19). WOOD BINE satellite communications vehicles have been identified previously at two other division-level SS-20 headquarters, Drovyanaya ICBM Complex CP/BNK and Verkhnyaya Salda SSM Complex CP/BNK. (S/WN)

23. **Kansk Mobile IRBM Base 1.** During this reporting period, one of the original SBGs under construction was dismantled, and construction on a new SBG to replace it was started. On [ ] ground scraping was evident in the area where the new SBG would be constructed. When complete, this SBG will become one of the normal complement of nine. In addition, roof sections were assembled and on the ground near another partially constructed SBG. Two stacks of net-covered SBG components had been present since [ ] the foundation form for the new SBG had been constructed in the prepared area, and two

partially erected SBGs required only the roof sections to be emplaced. Assembled roof sections were near both of these SBGs. Additionally, one stack of net-covered SBG components was in the operations area. (S/WN)

24. Also in the operations area, camouflage netting had been placed over the two partially assembled SBGs and their assembled roof sections since [ ] (Figure 20). On [ ] a large amount of net-covering was observed at several locations throughout the area. Netting was placed over two SBG foundations (one had nearby net-covered components) and was on the ground near two other SBG foundations (Figure 21). A truck-mounted crane, in the operations area near one SBG foundation, appeared to be unloading SBG components. By [ ] a stack of SBG components had been delivered. These components were placed near and net covered by the SBG foundation (later dismantled and abandoned). On that same date, a large rectangular excavation was in the operations area across from one five-bay garage. Additionally, concrete was poured into the foundation form of the new SBG, creating a [ ] by [ ] concrete hardstand. Reinforced concrete hardstands, which provide additional strength to support loaded TELs, were visible in eight SBG foundations on [ ] Some of the interconnecting braces had been removed from the SBG foundation being dismantled. Seven cylindrical storage tanks had been delivered to the operations area (one cylindrical storage tank was present on [ ] for a total of eight storage tanks. Three of these tanks were near the five-bay garage directly across from the rectangular excavation. At the regimental C3 facility in the general

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support area, a small square excavation (probably for a lattice tower pedestal) was near the C3 building. (S/WN)

25. On [REDACTED] all the interconnecting braces had been removed from the SBG foundation being dismantled and had been moved near the new SBG, which had some footings emplaced (Figure 22). One SBG was complete, and some netting had been removed from atop the one remaining partially assembled SBG. Netting remained over the nearby assembled roof sections. Additionally, a second rectangular excavation was observed in a second launch battalion area. Netting, on the ground near two SBG foundations since at least [REDACTED] had been removed. By [REDACTED] two SBG foundations had been net covered, and a third SBG was partially assembled. Net-covered SBG

components were still near the SBG undergoing dismantlement. (S/WN)

26. On [REDACTED] the slightly open roof of the externally complete SBG provided evidence to confirm that the SBG is a type B. The two partially assembled SBGs and their nearby assembled roof sections were net covered. Roof sections were across the road from the latest SBG undergoing assembly. Three rectangular excavations were observed in each of the three launch battalion areas, and additional net-covered SBG components were near the SBG foundations (Figure 23). Netting had been removed from one of two previously reported net-covered SBG foundations. At this time, another foundation was net-covered. By [REDACTED] two more SBGs had been completed, for a total of three externally complete SBGs. The roof of one of

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the three SBGs was slightly open. Netting had been removed from the previously reported net-covered foundations. On this date, no SBG foundations were net covered. At the new SBG, the interconnecting braces had been installed in its foundation, and a fourth rectangular excavation was observed in the operations area. (S/WN)

27. On [redacted] four SBGs were externally complete, and a fifth was partially assembled. Two cylindrical storage tanks were near each of the four rectangular excavations in the operations area. By [redacted] the remaining concrete hardstands of the SBG that had undergone dismantlement had been dirt covered. Two more SBGs were externally complete, for a total of six externally complete SBGs. The roof of one of the six SBGs was slightly open, providing evidence to confirm that the garage is a type B. (S/WN)

28. On [redacted] when the base was last observed, six SBGs were externally complete and three other SBGs were in the early stage of construction. The three five-bay garages required minor roof work, and the parking apron of one of the five-bay garages was almost completely emplaced. Three of the four rectangular excavations each had two cylindrical tanks placed inside of them. One of these three excavations had been earth covered. The fourth excavation contained only one cylindrical tank; a second cylindrical tank, however, was nearby. Cable trenches were evident throughout the operations area. Two stacks of net-covered SBG components, one of which was near the abandoned SBG (Figure 24), were present. In the general support area at the regimental-level SS-20 C3 facility, the rectangular three-story C3 building was nearly complete, and the C3-associated ten-bay garage was in the late stage of construction. No roof-mounted antenna arrays were visible on the C3 building. Eight other buildings, including a steamplant and a ten-bay garage, were in the mid-to-late stages of construction in the support area. (S/WN)

29. **Kansk Mobile IRBM Base 2.** By [redacted] a reinforced-concrete, [redacted] hardstand was in the center of each of two of the three SBG foundations that were near footings for a five-bay

garage in the operations area. These hardstands had been newly poured since [redacted]. The similar installation of hardstands has been observed at Kansk Mobile IRBM Base 1. On [redacted] concrete hardstands were in the center of each of three SBG foundations, and a form for a concrete hardstand was being assembled in a fourth SBG foundation. On [redacted] the operations area contained four SBG foundations, each with a reinforced concrete hardstand, ground scraping for five additional SBGs, and footings for three five-bay garages. No security fence was discernible around the operations area. In the general support area at the regimental-level C3 facility, construction was still in the early stages. Footings for a C3 building and a C3-associated ten-bay garage were present. Foundations were under construction for five buildings in the support area. (S/WN)

30. **Kansk SS-20 Support Complex.** On [redacted] SBG components—not net covered—were along the railspur at the offloading area. On [redacted] net-covered SBG components were in this same area, and on [redacted] a row of net-covered probable SBG components, including corner posts and wall stanchions, was present. (S/WN)

31. On [redacted] at the division-level C3 facility, the rectangular three-story C3 building and the headquarters/administration building were in the mid-to-late stages of construction. The foundation for a third building was also present. (S/WN)

**Vladimir SRF Army**

32. **Yurya FTA 011** [redacted] On [redacted] an SS-20 FTX was observed for the first time at this new FTA, approximately 71 nm north of Yurya SSM Complex [redacted]. A probable SS-20 launch battalion consisting of three SS-20 TELs with canisters and at least three camouflaged probable MSVs were approximately 8 nm north-east of the town of Obyachevo (Figure 25). Two TELs were on a secondary dirt road and the third TEL was departing the area where the three camouflaged probable MSVs were still deployed. The vehicles were not present on 7 July and had departed the FTA by [redacted] (S/WN)

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33. **Yurya IRBM Division CP/BNK.** On [redacted]  
[redacted] the type C satellite communications station,  
0.5 nm northeast of Yurya IRBM Division CP/BNK,  
was in the late stages of construction. No antennas  
were visible on the antenna pedestals. (S/WN)

area (Figure 26). The mockups have been present  
since at least [redacted] but were not observed under  
construction. In addition, three [redacted] MSVs,  
two [redacted] MSVs, and two support vehicles  
were in front of the C3-associated 11-bay garage.  
(S/WN)

25X1  
25X1  
25X1  
25X1

**Western USSR**

**Smolensk SRF Army**

34. **Dyatlovo Mobile IRBM Base 1.** On [redacted]  
[redacted] seven SS-20 vehicle mockups were identified  
for the first time at this base. The mockups were in  
a wooded area, just south of the general support

35. **Lida FTA 001** [redacted]  
On [redacted] an FTX was identified for the first  
time at this new FTA. A camouflaged probable SS-  
20 launch battalion consisting of five SS-20-associ-  
ated vehicles was in a clearing along a treeline, just  
northwest of Lida Mobile IRBM Base 1 (Figure 27).  
(S/WN)

25X1  
25X1  
25X1  
25X1

25X1

[redacted]

36. **Lida IRBM Division RAD XMTR.** On [redacted] six horizontal dipole antennas, one quadrant antenna, and one antenna mast had been removed at this transmitter station. Four of the horizontal dipole antennas were oriented [redacted] toward Smolensk/Moscow, and the other two were oriented [redacted] toward Vselyub. In addition, at least two double rhombic antennas were under construction outside the northern portion of the site security fence. (S/WN)

37. **Polotsk/Disna IRBM REGT RADCOM XMTR.** By [redacted] two horizontal dipole antennas had been removed at this regimental radio communications transmitter station. One antenna had been oriented 70 degrees toward Postavy and the other [redacted] toward Smolensk. (S/WN)

38. **Postavy IRBM Division CP/BNK.** On [redacted] construction was continuing on the communications satellite station at this division command post bunker. The 27-meter dish antennas had not yet been installed on the roof. (S/WN)

39. **Slonim Mobile IRBM Base 1.** On [redacted] one SS-20 TEL with training canister, five MSVs (which appeared to have canvas rolled up on the back end), and two security vehicles were on the athletic field in the general support area of this base. The vehicles may have been set up as a static display for training purposes. (S/WN)

40. **Slonim IRBM REGT HQ/BNK.** On [redacted] a TWIN EAR antenna in the travel mode was identified for the first time at this facility. (S/WN)

**Vinnitsa SRF Army**

41. **Gresk MRBM REGT HQ RADCOM XMTR STA.** The Gresk IRBM regiment has been resubordinated from the Lida Division of the Smolensk SRF Army to the Mozyr Division of the Vinnitsa SRF Army. This resubordination is indicated by the upgrading and reorienting of the antenna field at the Gresk MRBM REGT HQ RADCOM XMTR STA. The Gresk antenna field has been undergoing changes since 1979, but a detailed analysis of these changes has not been possible until recently. Originally, the fence-secured antenna field consisted of a control building, a communications mast, two omnidirectional quadrant antennas, and three horizontal dipoles oriented toward Lida and Smolensk, the division- and army-level headquarters to which Gresk had been subordinate. On [redacted] the fence-secured antenna field consisted of a control building, a communications mast, two double rhombics oriented 65 degrees towards Moscow, and five horizontal dipoles oriented [redacted] degrees towards Mozyr, [redacted] towards Vinnitsa, and [redacted] towards Lutsk (Figure 28). The Mozyr Division now has five identified subordinate regiments (Gresk, Konkovich, Kozhanovich, Mozyr, and Rechitsa) and the Lida Division now has three identified subordinate regiments (Dyatlovo, Lida, and Slonim). (S/WN)

42. **Gresk MRBM REGT HQ RADCOM RCVR/BNK/HD.** By [redacted] two quadrant antennas and two horizontal dipole antennas had been removed at the Gresk RAD RCVR. The horizontal dipole antennas were oriented [redacted] toward Moscow and [redacted] toward Smolensk. The dismantling or modifying of old regimental receivers is typical when SS-4 or SS-5 sites are converted to SS-20 bases. (S/WN)

43. **Kivertsy Prob Mobile IRBM RTP (BE)** On [redacted] this RTP, under construction since early 1981, appeared to be complete. The facility is fence secured, served by four parallel rail spurs, and contains two transfer sheds and a transloading platform. A loop road, with a connecting access road, is near the transloading area of the RTP (Figure 29). (S/WN)

44. **Romny IR/MRBM Division CP/BNK.** Significant construction activity has been underway at the Romny IR/MRBM Division CP/BNK since [redacted] facility upgrading work has notably increased. Earth mounding on the triple-arch-roofed control bunker has been excavated in nine areas. One possible dipole antenna and one probable 3-3-3 FISH BONE antenna were being installed just south of the control bunker, near the previously existing dipole antenna. A new heliport, Romny SRF Divisional Heliport (BE [redacted]), has been completed immediately east of the control bunker and consists of one short runway/taxiway and six hardstands. The heliport is equipped with ground control approach equipment; three HIP C attack helicopters with rocket pods have been present. The northern portion of the Division CP/BNK support area was being expanded by the construction of seven buildings. A construction support camp consisting of eight large tents and several sheds was adjacent to the building construction. (S/WN)

45. **Lebedin Mobile IRBM RTP.** On [redacted] one SS-20 training canister and one possible missile-handling dolly were on a flatbed railcar next to the transloading dock. Three 24-meter missile-associated railcars, one probable boxcar, and one locomotive were also present. The railcars and equipment were not present on [redacted] (S/WN)

46. **Mozyr MRBM Division CP/BNK.** As of [redacted] construction was continuing on the previously reported unidentified rectangular building approximately 100 meters east of the Mozyr MRBM Division CP/BNK. The current construction status, however, could not be determined because of trees and shadows obscuring the structure. (S/WN)

**SS-20 Field Training Exercises**

47. SS-20 FTXs in the Eastern USSR were as follows:

Location	Date	Remarks
<b>Drovyanaya Complex</b>		
FTA 021 [redacted]	[redacted]	Camouflaged SS-20 launch battalion
FTA 005 [redacted] (FTA 3A)		Camouflaged SS-20 C3 unit

Location	Date	Remarks	
FTA 016 [ ] (FTA RC)	[ ]	Camouflaged SS-20 launch battalion	25X1
[ ]			25X1
FTA 017 [ ] (FTA RD)		Camouflaged SS-20 C3 unit	25X1
[ ]			25X1
FTA/R [ ] (FTA 1B/RVT)		Camouflaged SS-20 launch battalion	25X1
[ ]			25X1
FTA/R 015 [ ] (FTA RB/RVT)	[ ]	Camouflaged probable SS-20 launch battalion	25X1
[ ]			25X1
FTA 012 [ ] (FTA 5C)		Camouflaged SS-20 launch battalion	25X1
[ ]			25X1
FTA 013 [ ] (FTA 5D)	[ ]	Camouflaged SS-20 C3 unit (S/WN)	25X1
[ ]			25X1

48. SS-20 FTXs in the Central USSR were as follows:

**Novosibirsk Complex**

FTA/R 001 [ ]	[ ]	Two camouflaged probable MSVs;	25X1
(FTA RA-RVT, FTA RE-RVT)		a [ ] MSV was being used for	25X1
[ ]		driver-training purposes	25X1

**Yurya Complex**

FTA 011 [ ]	[ ]	Camouflaged SS-20 launch battalion	25X1
[ ]		(S/WN)	25X1

49. SS-20 FTXs in the Western USSR were as follows:

**Lida Complex**

FTA 001 [ ]	[ ]	Camouflaged SS-20 launch battalion	25X1
[ ]		(S/WN)	25X1

**Missile Support Rear Depots**

50. **Balta MSRD.** On [ ] components for 22 SBGs were at this facility in four separate storage areas. Components for one SBG, removed from the first storage area and placed along the rail line, were probably being prepared for shipment. In addition, components for another SBG had been delivered to the fourth storage area. By [ ] additional components for five and one-half SBGs had been removed from the first storage area, and components for only four SBG remained. The total number of components for SBGs could not be determined on [ ] because of partial coverage of the depot. On [ ] however, components for at least 15 SBGs were present. (S/WN)

51. **Glazov MSRD.** On [ ] components for approximately 13 SBGs were present at this facility. Since [ ] the components for three SBGs, being stored on the east side of the receiving area, had probably been shipped out. In addition, components for at least seven additional SBGs had arrived and were being stored on the west side of the receiving area. On [ ] components for two additional SBGs had been delivered to the receiving area. Net covering over some of the components in the receiving area was observed (Figure 30). By [ ] components for two more SBGs had been delivered to the receiving area, and components for approximately 17 SBGs were present. (S/WN)

52. **Novaya Mezinovka MSRD.** No change was detected in the status of the two SBGs at the

end of the receiving/checkout building. When last observed on [ ] one of the two SBGs was rail served, and there were no indications that the second SBG would be rail served. (S/WN)

**Missile Test Centers**

**Kapustin Yar Missile/Space Test Center SSM**

53. **SS-20 Field Training.** Kapustin Yar Mobile IRBM CTA 1 [ ]. On [ ] 25X1  
SS-20 FTXs were observed in this area. At least seven camouflaged SS-20-associated vehicles, observed on [ ] had departed by [ ] 25X1  
On [ ] a second SS-20 FTX was in progress 25X1  
and included three camouflaged TELs and at least 25X1  
seven camouflaged SS-20-associated vehicles (Figure 31). By [ ] the vehicles had departed. 25X1  
(S/WN) 25X1

54. **Kapustin Yar Mobile IRBM CTA 2 (BE** 25X1  
[ ] Three SS-20 FTXs were observed in 25X1  
this area. An SS-20 FTX was observed on [ ] 25X1  
[ ] and included two camouflaged SS-20 TELs 25X1  
and at least five camouflaged SS-20-associated vehicles. These vehicles were not present on [ ] 25X1  
The second FTX was observed on [ ] and 25X1  
consisted of two camouflaged SS-20 TELs and at least five camouflaged SS-20-associated vehicles. These vehicles had departed by [ ] 25X1  
The third FTX was observed on [ ] and included 25X1  
two camouflaged SS-20 TELs and at least six camouflaged SS-20-associated vehicles. By [ ] 25X1  
the vehicles had departed. (S/WN)

55. **Kapustin Yar Mobile IRBM CTA 5 (BE** 25X1  
[ ] On [ ] two camouflaged SS-20  
(Continued p. 29)

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Next 1 Page(s) In Document Denied

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25X1

launch units and a camouflaged SS-20 C3 unit were observed in this area. One launch unit included two SS-20 TELs and six SS-20-associated vehicles; the second launch unit included two SS-20 TELs and at least five SS-20-associated vehicles; the C3 unit consisted of at least eight probable SS-20-associated vehicles. All the vehicles had departed by [redacted]. No other activity was observed at this site for the remainder of the reporting period. (S/WN)

56. **Kapustin Yar MR/IRBM Bivouac Troop/Training Area** [redacted] A camouflaged probable SS-20 TEL was in the battalion training area on [redacted]. By [redacted] two probable camouflaged SS-20 TELs and four camouflaged SS-20-associated vehicles had been observed in this same area. The vehicles remained in the battalion training area throughout the reporting period. (S/WN)

#### Activity in Support of SS-20 Flight Testing and Crew Training

57. **Kapustin Yar MR Test Complex C Site 1** [redacted] Extensive construction continued throughout the reporting period (Figure 32). By [redacted] a set of footings had been observed at one of the two, diagonal, connecting roadways of the unique road pattern. The footings consisted of four 18- by 6-meter (overall) footers on each side of the road. By [redacted] wall posts had been installed in the footings and three unidentified boxlike structures had also been installed at the intersection of the footings and the unique road pattern. The unpaved section of the other parallel, diagonal, connecting roadway may suggest the future location of a similar building. Another set of wall posts, delivered to this site during the reporting period, was behind the five-bay building. Two new security fences under construction extend from the existing fenceline (southwest of the single-bay garage) and surround all of the unique road pattern with the exception of the access road. The previously reported construction of a new probable [redacted] support building behind the five-bay garage appeared to be complete. Cable trenches now connect this new support building with Kapustin Yar MR Test Complex C Site 2 [redacted]. The reason for this new construction has not yet been determined; however, the past site association with the SS-20 mobile IRBM system suggests that this activity could support a variant of or a follow-on to the SS-20 mobile missile system. (S/WN)

58. Also during the reporting period, all the expended SS-20 missile canisters at Complex C Site 1 (Figure 32) were net covered. (S/WN)

#### Activity in Support of New and Unidentified Missile Systems

59. **Kapustin Yar MR Test Complex C Site 2.** Construction of the two previously reported buildings, southwest and south of LP 2C-2, did not progress during the reporting period. The buildings were first observed under construction between [redacted]. When last observed on [redacted] only footings were present for the southernmost building, and most of the wall stanchions were erected at the other building, as noted in the previous reporting period. The

reason for the hiatus in construction and the purpose of these buildings is not known. This site currently supports land-based testing of the BL-10 long-range cruise missile, [redacted]

25X1

25X1

#### 60. Kapustin Yar MR Test Complex C Site 8

[redacted] Construction at LP 8C-1, LP 8C-2, and on supporting structures at Site 8 appears to be essentially complete. The rail-mounted shed at LP 8C-1, complete by [redacted] measures [redacted]

25X1

25X1

[redacted] During the reporting period, this shed was observed over the probable launch position several times. On [redacted] a tripodlike object was beside the shed, then subsequently positioned over the probable launch position. At LP 8C-2, the rails for a shed similar to the one at LP 8C-1 have been installed, but the shed has not yet been constructed. Additional activity at this site included removing and grading the temporary support area. This activity indicates that the site may be capable of supporting a flight test program, possibly for a new strategic mobile missile system. (S/WN)

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25X1

25X1

25X1

25X1

25X1

#### 61. Kapustin Yar MR Test Complex C Site 4C1

[redacted] Construction was continuing on the new missile-associated area, east of site 4C1. This area has been under construction since [redacted] construction material had been delivered along the access road, and two house-trailers and two truck-mounted cranes were near a [redacted] excavation at the end of the road. By [redacted] foundation had been constructed within the excavations. A possible prefabricated shelter/conduit was installed just west of the foundation. Two cable trenches, one still being excavated at the end of the reporting period, connected this area to launch site 4C1, and two rectangular excavations, perpendicular to each other, were connected by a cable trench to launch site 4C2. At the end of the reporting period, a security fence was under construction along the southern side of the access road to an area east of the excavation at the end of the road. Two additional areas that contain identical patterns of excavations for possible buildings/structures were under construction along the access road. The [redacted] structure at the end of the access road had been partitioned so that it contains four sections within its outer walls. The previously reported 244-meter road extension leads to a borrow pit and not to a new construction site. (S/WN)

25X1

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primary rail- and road-served, high-bay main receiving inspection/checkout building. (S/WN)

64. **Kapustin Yar RISA** [ ] Construction of the new missile-associated buildings at the north end of the facility did not progress during the reporting period. These buildings have been under construction since at least March 1980. (S/WN)

#### Plesetsk Missile/Space Test Center SSM

65. All 42 LRPs at the four mobile ICBM bases were observed at least once (Chart 1), and canvas-covered probable AADs were occasionally detected in some of the LRPs. During the reporting period, some minor building maintenance, such as replacement of roofing material, was observed at each facility. (S/WN)

66. **MOB 1** [ ] and **MOB 2 (BE** [ ] At MOB 1, in mid-June, grading was observed in the DDTA, approximately 1 nm northeast of the base. The four framework structures, in this area since [ ] remained in various stages of construction. The configuration of these structures and their location within this area suggests that they were designed to simulate vehicle garages/structures for routine troop training exercises; however, no mobile missile-associated vehicles were identified. (S/WN)

67. At MOB 2, during mid-to-late August, seven tents were erected just south of the base. Although vehicle tracks were visible in this area, no mobile missile-associated vehicles have been observed. (S/WN)

#### Possible Mobile Missile-Associated Activity

68. **Plesetsk ICBM Launch Test Site 21 (BE** [ ] No significant activity was identified during the reporting period, and site refurbishment, which began in 1980, has not been completed. LTS 21 is a soft-pad launch test site where the SS-X-15 and SS-16 were tested from mobile launchers. Previously reported site refurbishment, believed to have been for the flight testing of a mobile ICBM, involved both the launch control bunker and the 48-meter-long framework structure situated on the east pad extension. In mid-1982, a new concrete pad was installed, possibly with a launch stand on it, in the framework structure. In late 1982, some panels on the removable roof section on this structure were replaced. Since then, however, the structure has not been covered with canvas, which would effectively conceal any ongoing activities. Although flight testing of the mobile variant of the SS-X-25 from site 21 could have been planned, it may have been cancelled, perhaps to avoid any association of the SS-X-25 with a former SS-16 LTS. (S/WN)

69. **Plesetsk ICBM LTS 23** ( [ ] and **collocated LTS 24** [ ] At LTS 23, probable prelaunch activity was in progress from early June to early August. Figure 33 shows the chronology of events involving the SBG at LTS 23. This activity included modifications to the launch site that began after the May launch of an SS-X-25 from this site (DEFSMAC S/DQ/467-83[S]) and were completed before the [ ] SS-X-25 launch (DEFSMAC S/DQ/688-83[S]). These modifi-

cations included the installation of a paved apron extension between the existing silo apron and the SBG, the installation of paving blocks to accommodate vehicles with a larger turning radius at the site access road approach to the new apron extension, and the addition of alignment marks on the new apron extension. An additional line-of-sight was also cleared from the new apron extension to a calibration monument northwest of the launch site. (S/WN)

70. On [ ] canvas-/net-covered unidentified equipment was positioned on the new apron extension adjacent to the SBG. Although the canvas/net was large enough to cover a mobile missile launcher and possibly additional vehicles, its use precluded identification of the equipment under it. The silo door at LTS 23 was open, the silo appeared to be empty, and no activity was observed at the SBG. On postlaunch imagery of [ ] it was not possible to determine the origin of the launch. It may have been from the silo, the silo apron, or the SBG. The canvas-/net-covered equipment was no longer present, and the silos at both LTS 23 and 24 were open and appeared to be empty. (S/WN)

71. On [ ] a 6-meter section of the south end of the SBG at LTS 23 was being dismantled. The remaining [ ] of the SBG appeared to be intact. By [ ] the 6-meter section had been reconstructed and a 12-meter section at the north end was dismantled. Additional SBG components, wall stanchions, and corner posts were onsite. By [ ] reconstruction of the [ ] SBG had been completed. The reconstructed garage has the same overall dimensions and external appearance as the original garage. The reason for the dismantlement and reconstruction of the SBG has not been determined. (S/WN)

72. Components for an SBG were on an apron between the modified SS-16 RIC building and the rail shed in the MHF (Figure 34) on [ ] These components were probably the same ones delivered to the SMRA during mid-May 1982. Between [ ] these components were moved from the SMRA to this facility, where they have remained in storage. The observations of these components in open storage in the RIC area on [ ] suggests that the decision to dismantle and to reconstruct the SBG at LTS 23 was made before the [ ] SS-X-25 launch. (S/WN)

73. **Plesetsk MHF** ( [ ] Modification/construction in the SS-16/SS-X-25 RIC area in support of the SS-X-25 was continuing at a steady pace. By mid-July, a new component calibration building under construction in the northeast corner of this facility was externally complete. Four calibration monuments for this building were installed. In early March, foundations for three additional buildings had been identified in the southeast quadrant of this facility. By [ ] one of the buildings was in the late stages of construction, the second building was in the early stages of construction, and no apparent change in the foundation of the third building was observed (Figure 34). (S/WN)

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25X1



25X1

**Construction in Support of a Rail-mobile ICBM**

74. Construction of rail-served missile facilities at Plesetsk strongly suggests that the Soviets will flight test a rail-mobile variant of the SS-X-24. At least three rail-served facilities/areas under construction may function as launch sites/support facilities for a rail-mobile flight test program. These areas include the rail-served probable ICBM launch test facility under construction adjacent to LTS 28 [redacted], the new Missile-associated Construction Area (I [redacted]) near Plesetsk ICBM LTS 20 [redacted] and the new probable MRACA. (S/WN)

25X1  
25X1  
25X1

75. At the rail-served probable ICBM launch test facility adjacent to LTS 28, construction was continuing at a rapid pace (Figure 35). By the end of the reporting period, the 102-meter rail-served structure, the buried launch control building, and a new instrumentation position were externally complete, and most of the roof sections had been installed on the new support building. Two additional instrumentation positions were also under construction. Rail sections had been installed for: a spur extending past the new support building, a spur leading to the 102-meter structure, and for two spurs extending toward and probably past (one on either side of) the buried launch control building. Two [redacted] U-shaped structures have been constructed next to the western end of the buried launch control building. When these U-shaped structures are backfilled, the open portion of each will probably be at or just above the grade of the railbed and will be wide enough for a railcar to pass through. If construction continues at the pace observed during the reporting period, this rail-served facility could be completed by early to mid-1984. (S/WN)

25X1

76. **New probable MRACA.** Construction was continuing in the new probable MRACA (Figure 36). By the end of the reporting period, the rail-served, 81-meter-long, high-bay probable missile receiving and checkout building and the rail-through shed appeared to be externally complete. By early August, the rail-served, high-bay section

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**Page Denied**

Next 1 Page(s) In Document Denied

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of the 104-meter building was at least 90 percent complete. The low-bay section of this building and the approximately 13- by 10-meter building under construction adjacent to it will not be rail served. The four-bay, rail-served probable interim missile storage building at the south end of the MRACA remained in an early stage of construction. The pattern of the security fence for the MRACA suggests that no additional major structures will be added to this facility. If construction continues at the pace observed during the reporting period, this facility could be externally complete by early 1984. Based on the pace of construction and the configuration of the MRACA (with rail service to all major buildings), it is likely that this facility will support the flight test program of a rail-mobile variant of the SS-X-24. (S/WN)

#### 77. Missile - Associated Construction Area.

This new area is approximately 0.3 nm southwest of LTS 20 in an area adjacent to the right-of-way for the eastern extension of the main complex rail line. Grading for this area has been in progress since late March. Significant activity during the reporting period included the initial construction for a rail-served 102-meter-long structure and a rail spur, construction for a probable launch control silo, and the installation of rail sections in this area (Figure 37). The building is similar to the 102-meter rail-served structure under construction in the rail-served probable ICBM launch test facility adjacent to LTS 28. (S/WN)

78. On [ ] the coring for a probable launch control silo was being excavated. The retaining wall installed in the coring has an inner diameter of [ ] and an outer diameter of [ ]. On [ ] a rail-mounted jib crane on dual rails was next to the silo. In the past, jib cranes have not been used in the construction of missile launch or control silos (Figure 37 inset). Type IIIX upper silo components, which could be used in the construction of a launch control silo, have been in open storage in the SMRA in the Plesetsk MHF since 1980. (S/WN)

79. At the east support facility, construction for the new RTP area was continuing. By late August, the transloading dock was complete, wall sections were installed in one of the two buildings immediately adjacent to the dock, and grading of the areas adjacent to the new dock and two buildings was underway. By the end of the reporting period, foundation blocks for additional offloading platforms or a rail-through building were being emplaced on both sides of a rail spur. (S/WN)

80. **Rail Line Construction at Plesetsk.** Construction of the approximately 30-nm eastern extension of the main complex rail line from the Plesetsk ICBM Sites 9/10 Support Facility [ ]

[ ] was progressing at a rapid pace. Additional ballast for the railbed continued to be added and graded in numerous noncontiguous segments along the rail right-of-way to LTS 28. By the end of the reporting period, rails were installed to within 2.5 nm of LTS 28. If the pace of construction observed is continued, rails may reach LTS 28 before the end of 1983 (Figure 38). (S/WN)

### Missile-Related R&D and Production Facilities

81. **Bryansk Guided Missile Support Equipment Plant II.** SBG components continued to be fabricated and shipped from Bryansk, and on [ ] no change was observed in the types of SBG components (Figure 39). Although production rates appeared to remain at the same level, coverage was not adequate to verify if any actual change in the rate of production had occurred. Components for one to four SBGs were present at the plant during the period. (S/WN)

25X1  
25X1

82. **Volgograd Steel and Machinery Plant Krasnyy Barricada 221.** MAZ six-axle chassis continued to be observed at Volgograd 221 in larger than normal numbers. The number of MAZ six-axle chassis observed at any one time ranged from three to nine. Approximately two-thirds of these chassis were modified MAZ six-axle chassis with the right cab situated over the right front axle rather than in front of it. Outside of production-related facilities, the modified MAZ six-axle chassis has been identified only within the Drovyanaya SSM Complex at Drovyanaya SSM RTP and Drovyanaya Mobile IRBM Base 1. The continued high count of six-axle chassis at the plant indicates a possible increase in the production rate and the possibility that the increase may be related to some other use for the MAZ six-axle chassis. (S/WN)

25X1  
25X125X1  
25X1

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25X1

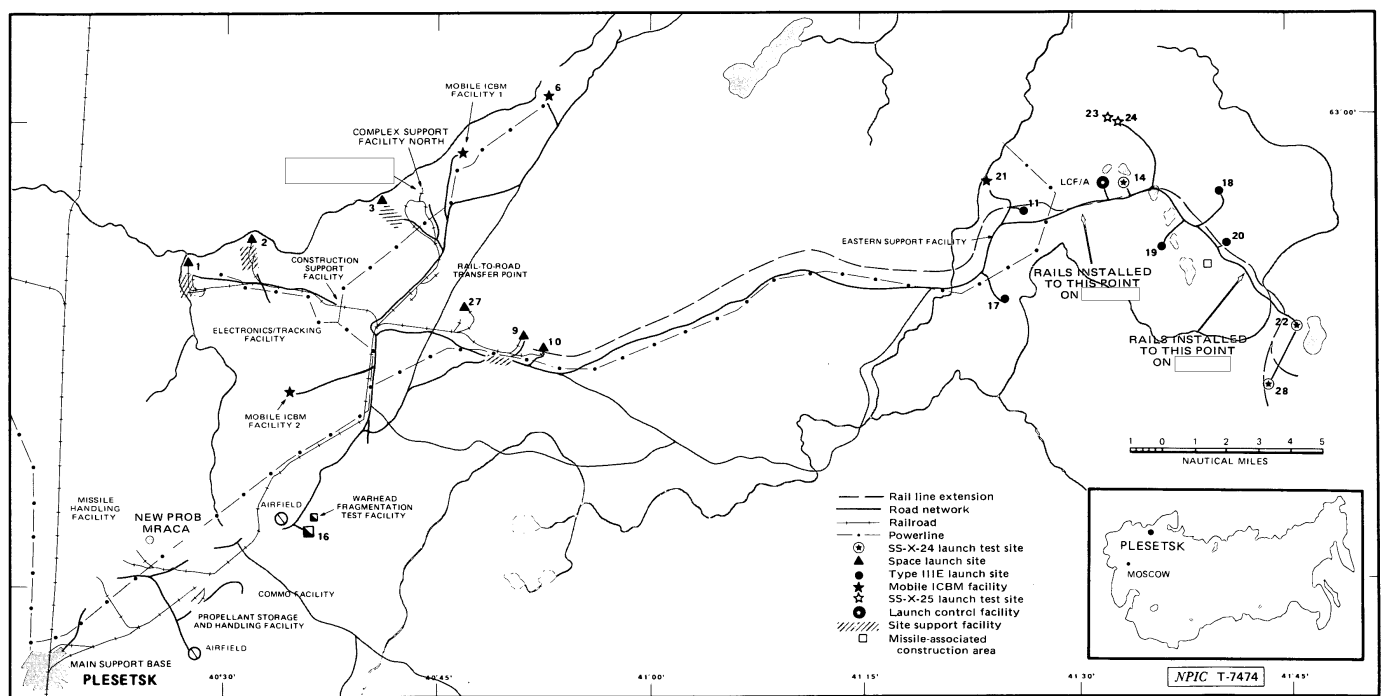


FIGURE 38. MAP OF PLESETSK RAIL EXTENSION

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25X1

Table 1.  
Summary of SS-20 Construction at Deployed Complexes

	OPERATIONS AREA										GENERAL SUPPORT AREA										Status of Construction at RTP	Remarks/Comments		
	SSM Installation Name	First Identified	Date Assessed as Being Operational	Date Last Inspected	SBG Comp	3-Ray Garage Comp	4-Ray Garage Comp	5-Ray Garage Comp	11-Ray Garage Comp	11-Ray Garage Udon	11-Ray Garage Number	11-Ray Garage Construction Comp	Tech Support Bldg Number	Tech Support Bldg Construction Comp	High 2-Ray Bldg Number	High 2-Ray Bldg Construction Comp	Closetory Number	Closetory Construction Comp						
EASTERN USSR	Chita SRP Army																							
	Drovnaya Mobile IRBM Base 1	Jul 78	Sep 77		9	—	3	—	—	—	—	1	—	1	Yes	0*	—	0*	—	0*	—	A elementary bldg nearly complete	5 stationary SS-20 mockups adj to athletic fld	
	Drovnaya Mobile IRBM Base 2	Jan 77	Jun 78		9	—	3	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	0*	3 stationary SS-20 mockups near the apt area		
	Drovnaya Mobile IRBM Base 3	Nov 77	Dec 78		9	—	3	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	0*	6 stationary SS-20 mockups 0.5 nm south of MOB		
	Drovnaya Mobile IRBM Base 4	Nov 78	Nov 81		9	—	—	—	3	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	0*		
	Drovnaya Mobile IRBM Base 5	Apr 79	Mar 80		9	—	3	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	0*	3 SS-11 canisters being buried in apt area at least 10 stationary SS-20 mockups 100 meters west of the two 11-ray garages in apt area		
	Drovnaya Remosa Spt	Aug 79	—		3	—	—	—	—	—	0	—	0	—	0	—	0	—	0	—	0	0		
CENTRAL USSR	Omsk SRP Army																							
	Novosibirsk Mobile IRBM Base 1	Jan 77	Jun 78		9	—	—	—	3	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	0*	Complete	Large C shaped bldg upon in apt area
	Novosibirsk Mobile IRBM Base 2	Dec 77	Nov 78		9	—	—	—	3	—	0	—	2	Yes	0*	—	0*	—	0*	—	0*	1 bridge nearly complete in apt area		
	Novosibirsk Mobile IRBM Base 3	Jun 78	Nov 79		9	—	—	—	3	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	0*		
	Novosibirsk Mobile IRBM Base 4	Dec 79	Dec 80		9	—	—	—	3	—	—	0	—	1	Yes	0*	—	0*	—	0*	—	0*		
	Novosibirsk Mobile IRBM Base 5	Dec 80	Aug 81		9	—	—	—	3	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	0*		
	Novosibirsk Mobile IRBM Base 6	Dec 81	Dec 82		9	—	—	—	—	—	3	—	0	—	2**	Yes	0*	—	0*	—	0*	—	0*	
	Orenburg SRP Army																							
	Verkhnyaya Salda Mobile IRBM Base 1	Feb 78	Jan 79		9	—	3	—	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	0*	Complete, SBG in Receiving/Storage area	Footings for 1 bldg upon in apt area, 5 stationary SS-20 mockups in wooded area between apt and apt area
	Verkhnyaya Salda Mobile IRBM Base 2	Jan 79	Nov 79		9	—	3	—	—	—	—	0	—	2	Yes	0*	—	0*	—	0*	—	0*	2 stationary SS-20 mockups under construction near the dismantled SS-7 launch area. This is the same area where 5 stationary SS-20 mockups had been dismantled by July	
UNKNOWN SRP Army***	Verkhnyaya Salda Mobile IRBM Base 3	Nov 79	Dec 80		9	—	3	—	—	—	0	—	1	Yes	0*	—	0*	—	0*	—	0*	At least 3 stationary SS-20 mockups in a wooded area near 2 former SS-7 MRBs in the apt area		
	Verkhnyaya Salda Mobile IRBM Base 4	Mar 80	Dec 80		9	—	3	—	—	—	0	—	0	—	0*	—	0*	—	0*	—	0*	At least 3 stationary SS-20 mockups at south edge of apt area		
	Verkhnyaya Salda Mobile IRBM Base 5	Apr 81	Nov 81		9	—	3	—	—	—	0	—	1	Yes	0*	—	0*	—	0*	—	0*	At least 5 stationary SS-20 mockups in apt area near steamplant materials for personnel bunker, upon in apt area, still in veh maintenance area		
	Barnaul Mobile IRBM Base 1	May 82	Feb 83		9	—	—	—	—	—	3	—	0	—	1	Yes		Barnaul SS-20 Spt Cpk					RTP upon Barnaul SS-20 Spt Cpk	3 bridge upon in apt area at least 3 stationary SS-20 mockups upon near security fencing of easternmost battalion area
	Barnaul Mobile IRBM Base 2	Mar 83	—		3	6	—	—	—	—	3	0	—	1	No	0	—	0	—	0	—	0	7 bridge, including a steamplant, in late stage const in apt area	
	Barnaul Mobile IRBM Base 3	Jul 83	—		—	9	—	—	—	—	2	1	0	—	1	No	0	—	0	—	0	0	At least 8 bridge upon in apt area, including a steamplant	
Kansk Mobile IRBM Base 1	Sep 82	—		6	3	—	—	—	—	3	0	—	2	No			Kansk SS-20 Spt Cpk						RTP upon Kansk SS-20 Spt Cpk	Approximately 10 bridge, including a steamplant, upon in apt area, cylindrical tanks being buried in rectangular excavations in apt area, 1 of the 9 original SBGs has been abandoned, and a new SBG has been built to replace the abandoned SBG
	Kansk Mobile IRBM Base 2	Mar 83	—		—	4	—	—	—	—	—	3	0	—	1**	No	0	—	0	—	0	—	0	No visible security fencing around the apt area, grid striping for the additional 5 SBGs in apt area, 7 bridge, including a steamplant, in early stage const in apt area

Red indicates changes since the cutoff date of the updated report.

\*\*Ten day garage

\*\*\*Subordination cannot be determined at this time

This table in its entirety is classified TOP SECRET RLTF

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Table 2. C3 Developments at Deployed SS-20-Associated Facilities as of [REDACTED]

25X1

	C3-Associated Structures and Mobile Antennas										Fixed Antenna Inventory					Comments			
	Large C-shaped C3 Bldg	Small C-shaped C3 Bldg	Rectangular C3 Bldg w/ wall C-shaped Bldg	Rectangular C3 Bldg	C3 Bunker	11-Bay Garage	Communication Satellite Antenna	Antenna Tower	Mobile Base Hqs (No BE No.)	Mobile Base Hqs (No BE No.)	Large Towers	Horizontal Dipole Antenna	Rhombic Antennas	Quadrant Antennas	Hardened Antennas		Antenna Array		
EASTERN USSR	CHITA SRF ARMY																		
	DROVYANAYA ICBM DIV																		
	CP/Bldg	-	-	-	1	-	1*	-	-	6	-	3	-	-	-	3	WOOD BINE satellite commo vehicle identified here		
	CP/Bldg	-	-	-	1	-	-	-	-	2	1	4	-	-	-	2	Mobile TWIN EAR occasionally observed here		
	Rad Rcvr	-	-	-	1	-	-	-	-	3	-	-	-	-	2	*	2 sets of mast mounted TWIN EAR here		
	Rad Xmitr	-	-	-	-	-	-	-	-	-	4	-	-	8	-	-	-		
	Drovyanaya IRBM Regts																		
	Mobile Base 1 Hq	-	-	-	1	-	-	-	*	Yes	2	-	-	-	-	-	2*	Occasionally observed: two probable retract masts are also on 3-bay garages	
	Mobile Base 2 Hq	-	-	-	1	-	-	-	*	Yes	2	-	-	-	-	-	-	Occasionally observed: two probable retract masts are also on 3 bay garages	
	Mobile Base 3 Hq	-	-	-	1	-	-	-	-	Yes	2	-	-	-	-	-	-	Occasionally observed: two probable retract masts are on 3-bay garages	
	Mobile Base 4 Hq	-	-	-	1	-	-	-	No	Yes	4	-	-	-	-	-	-	Two probable retract masts are on 3-bay garages	
Mobile Base 5 Hq	-	-	-	1	-	-	-	*	Yes	2	-	-	-	-	-	-	Occasionally observed		
CENTRAL USSR	OMSK SRF ARMY																		
	NOVOSIBIRSK ICBM DIV																		
	CP/Bldg	-	-	-	1	-	-	-	-	8	2	1	-	-	-	-	3		
	Rad Rcvr	-	-	-	1	-	-	-	-	1	2	2	-	-	-	1	1		
	Rad Xmitr	-	-	-	-	-	-	-	-	2	7	-	6	-	-	-	-		
	Novosibirsk IRBM Regts																		
	Mobile Base 1 Hq	*	-	-	1	-	-	-	No	Yes	2	-	-	-	-	-	-	Construction resumed on this bldg	
	Mobile Base 2 Hq	-	-	-	1	-	-	-	No	Yes	2	-	-	-	-	-	-		
	Mobile Base 3 Hq	-	-	-	1	-	-	-	No	Yes	2	-	-	-	-	-	-		
	Mobile Base 4 Hq	-	-	-	1	-	-	-	No	Yes	2*	-	-	-	-	-	-	STICK PIN antenna atop one lattice tower	
	Mobile Base 5 Hq	-	-	-	1	-	-	-	No	Yes	4	-	-	-	-	-	-		
Mobile Base 6 Hq (No BE No.)	-	1	-	1	-	-	*	-	Yes	2	-	-	-	-	-	-	10-bay garage		
WESTERN USSR	ORENBURG SRF ARMY																		
	VERKHNAYA SALDA ICBM DIV																		
	CP/Bldg	-	-	-	1	-	-	-	-	9	4	1	-	-	-	-	4	Type C satellite commo station ucon. WOOD BINE satellite commo vehicle identified	
	Rad Rcvr	-	-	-	1	-	-	-	-	3	2	2	-	2	2	3*	-	2 mast mounted TWIN EAR antennas	
	Rad Xmitr	-	-	-	-	-	-	-	-	-	6	-	4	1	-	-	-		
	Verkhnyaya Salda IRBM Regts																		
	Mobile Base 1 Hq	-	-	-	1	-	-	-	*	Yes	2	-	-	-	-	-	-	Occasionally observed	
	Mobile Base 2 Hq	-	-	-	1	-	-	-	*	Yes	2	-	-	-	-	-	-	Occasionally observed	
	Mobile Base 3 Hq	-	-	-	1	-	-	-	No	Yes	2	-	-	-	-	-	-		
	Mobile Base 4 Hq	-	1	-	-	-	-	-	No	Yes	4	-	-	-	-	-	-		
	Mobile Base 5 Hq	-	-	-	-	-	-	-	-	Yes	2	-	-	-	-	-	-		
EASTERN USSR	UNKNOWN SRF ARMY																		
	BARNAUUL ICBM DIV																		
	Hq (No BE No.)	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-	WOOD BINE satellite commo vehicle identified. 2 root-mounted antenna arrays	
	Barnaul IRBM Regts																		
	Mobile Base 1 Hq	-	-	-	1	-	*	-	No	Yes	2	-	-	-	-	-	-	Nine-bay garage	
	Mobile Base 2 Hq (No BE No.)	-	-	-	1	-	*	-	No	Yes	2	-	-	-	-	-	-	Nine-bay garage ucon. 1 lattice tower ucon	
	Mobile Base 3 Hq (No BE No.)	-	-	-	1	-	*	-	No	Yes	2	-	-	-	-	-	-	1 nine bay and one 11-bay garage ucon	
	KANSK IRBM DIV																		
	Hq (No BE No.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hq/admin bldg also ucon adj to C3 bldg	
	Kansk IRBM Regts																		
	Mobile Base 1 Hq (No BE No.)	-	-	-	1	-	*	-	No	-	-	-	-	-	-	-	-	10-bay garage ucon	
Mobile Base 2 Hq (No BE No.)	-	-	-	1	-	*	-	No	-	-	-	-	-	-	-	-			
CENTRAL USSR	VLADIMIR SRF ARMY																		
	YURTA IRBM DIV																		
	CP/Bldg	-	-	-	1*	-	-	-	-	9	3	1	-	-	-	-	2	Small personnel bunker ucon. Type C satellite commo sta ucon	
	Rad Rcvr	-	-	-	1	-	-	-	-	3	8	-	-	2	-	5*	-	2 masts have TWIN EAR antennas on them	
	Rad Xmitr	-	-	-	-	-	-	-	-	-	8	-	-	-	-	4	-		
	Yurta IRBM Regts																		
	Mobile Base 1 Hq	-	-	-	1	-	-	-	No	Yes	2	-	-	-	-	-	-		
	Mobile Base 2 Hq	-	-	-	1	-	-	-	No	Yes	2	-	-	-	-	-	-		
	Mobile Base 3 Hq	-	-	-	1	-	-	-	No	Yes	2	-	-	-	-	-	-		
	Mobile Base 4 Hq	-	1	-	-	-	-	-	No	Yes	2	-	-	-	-	-	-	R 400/404 unit identified	
	Mobile Base 5 Hq	-	1	-	-	-	-	-	No	Yes	2	-	-	-	-	-	-		
WESTERN USSR	SMOLENSK SRF ARMY																		
	LIDA IRBM DIV																		
	CP/Bldg	-	-	-	-	-	-	-	-	1	2	2*	-	-	-	-	3	Double Rhombic Antennas	
	Rad Rcvr	-	-	-	-	-	-	-	-	2	-	-	2*	-	-	-	2	6 horizontal dipole ant., one quadrant and 1 mast removed. 2 Rhombic antennas ucon	
	Rad Xmitr	-	-	-	-	-	-	-	-	-	4*	-	2*	3*	-	-	1*		
	Dnyelovo IRBM Regt																		
	Mobile Base Hq (No BE No.)	-	-	-	1	-	1	-	-	1	2*	2	-	-	-	-	-	1 STICK PIN atop 1 lattice tower	
	Support Bunker*	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	This facility was formerly an MRBM Regt CP/Bldg (Same BE No.)	
	Rad Xmitr	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1		
	Lida IRBM Regt																		
	Mobile Base Hq	-	-	-	1	-	-	-	-	1	2*	2	-	-	-	-	-	1 STICK PIN atop 1 lattice tower	
Stonon IRBM Regt																			
Mobile Base Hq	-	-	-	1	-	1	-	*	1	2	2	-	-	-	-	-	First identification of mobile TWIN EAR		
Support Bunker	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	This facility was formerly an MRBM Regt CP/Bldg (Same BE No.)		
Rad Xmitr	-	-	-	-	-	-	-	-	-	-	-	-	4	-	2	-			
POSTAVY IRBM DIV																			
CP/Bldg	-	-	-	1	-	-	-	-	-	4*	4	-	1	-	-	-	8*	1 additional lattice tower and 5 additional masts identified	
Rad Rcvr	-	-	-	1	-	-	-	-	-	5*	-	-	-	-	-	-	-	5 van trucks and trailers at Bldg. 3 lattice towers have TWIN EAR antennas	
Rad Xmitr	-	-	-	-	-	-	-	-	-	-	10*	-	-	-	-	-	6	1 additional horizontal dipole antenna identified	
Polotsk IRBM Regt																			
Mobile Base 1 Hq*	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-	3	This facility was formerly an MRBM Regt CP/Bldg (Same BE No.)	
Mobile Base 2 Hq	-	1	-	-	-	1	-	1	-	1	2	-	-	-	-	-	1	Two horizontal dipoles removed: mast supports FORK REST antennas	
Rad Xmitr	-	-	-	-	-	-	-	-	-	-	0*	-	-	-	-	-	-		
Postavy IRBM Regt																			
Mobile Base Hq*	1	-	-	-	1	-	-	1	-	-	2	-	-	-	-	-	2	*This facility was formerly an MRBM Regt CP/Bldg (Same BE No.)	
Smolensk IRBM Regt																			
Mobile Base 1* Hq	-	-	-	1*	-	-	-	-	-	2	2	-	-	-	-	-	1	This facility was formerly an MRBM Regt CP/Bldg (Same BE No.)	
Mobile Base 2 Hq	-	1	-	-	-	1	-	-	-	1	2	2	-	-	-	-	1		
Rad Xmitr	-	-	-	-	-	-	-	-	-	-	8	-	-	-	1	-	1		
WESTERN USSR	VINNITSA SRF ARMY																		
	LUTSK MR/IRBM DIV																		
	CP/Bldg	-	-	-	3	-	-	-	No	-	4	-	-	-	-	-	4		
	Rad Rcvr	-	-	-	1	-	-	-	No	-	2	-	2	2	2	3	-	2 masts support FORK REST antennas	
	Rad Xmitr	-	-	-	-	-	-	-	No	-	5	-	4	2	-	-	3		
	Kwerdy IRBM Regt																		
	Mobile Base Hqs	-	-	-	1	-	*	-	-	Yes	2	2	-	-	-	-	-	Facility has a 10-bay garage	
	Rad Sta*	-	-	-	-	-	-	-	No	-	1or2	-	-	-	-	-	-	Facility formerly an MRBM Regt CP/Bldg (Same BE No.)	
	Lutsk IRBM Regt																		
	Mobile Base Hqs (No BE No.)	-	-	-	1	-	1	-	-	Yes	2*	2	-	-	-	-	-	-	Both lattice towers have a KY-6L di antenna on top
	Rad Sta*	-	-	-	-	1	-	-	No	-	-	-	-	-	-	-	-	2	Facility formerly an MRBM Regt CP/Bldg (Same BE No.)
MOZYR IRBM DIV																			
CP/Bldg*	-	-	-	3	-	-	Type A	No	-	-	2	-	-	-	-	-	3	Probable computer building near bunkers. und bldg ucon nearby	
Rad Rcvr	-	-	-	-	-	-	-	No	-	4	-	2	2	2	3*	-	2	2 masts support FORK REST antennas	
Rad Xmitr	-	-	-	-	-	-	-	No	-	-	7	-	2	-	-	4*	2	2 masts support FORK REST antennas	
Gruok IRBM Regt																			
Mobile Base Hq	-	1	-	-	-	1	-	-	-	2	-	-	-	-	-	-	1*	Log periodic atop mast	
Radcom Sta*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	Facility formerly an MRBM Regt CP/Bldg (Same BE No.)	
Rad Rcvr	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2 horizontal dipole antennas and 2 quadrants removed; hardened antennaType B	
Rad Xmitr	-	-	-	-	-	-	-	-	-	5	-	2	-	-	-	-	-		
Korolkovichi IRBM Regt																			
Mobile Base Hqs*	1*	-	-	-	1	1	-	ucon	No	-	2	-	-	-	-	-	3	Facility formerly an MRBM Regt CP/Bldg (Same BE No.) and had no adj antennas	
Rad Xmitr*	-	-	-	-	-	-	-	No	-	-	-	-	-	1prob	-	-	-	Facility formerly an MRBM Regt Xmitr (Same BE No.)	
Korshonovichi IRBM Regt																			
Mobile Base Hqs	1	1	-	-	-	1	-	ucon	No	-	2	-	-	-	-	-	1		
Rad Sta*	-	-	-	-	-	1	-	-	No	-	-	-	-	-	-	-	2	Facility formerly an MRBM Regt CP/Bldg (Same BE No.)	
Rad Rcvr*	-	-	-	-	-	1	-	-	No	-	2	-	-	2	1	3	-	Facility formerly an MRBM Regt Rcvr (Same BE No.)	
Rad Xmitr	-	-	-	-	-	-	-	-	No	-	4	-	4	2	-	2	-	Facility formerly an MRBM Regt Xmitr (Same BE No.)	
Mozyr IRBM Regt																			
Mobile Base Hq	1	1	1	1	-	-	-	-	No	-	2	-	-	-	-	-	-		
Rechitsa IRBM Regt																			
Mobile Base Hq	1	1	1	1	-	-	-	ucon	No	No	2	-	-	-	-	-	-		
ROMNY IR/MRBM DIV																			
CP/Bldg (*)	-	-	-	-	3*	-	-	-	No	-	2*	ucon	-	-	-	-	3	Antenna field being upgraded. C3 bunkers undergoing unidentified modifications	
Rad Rcvr	-	-	-	-	1	-	-	-	No	-	4	-	-	2	-	-	-		
Rad Xmitr	-	-	-	-	-	-	-	-	No	-	4	-	-	2	-	-	2	11 reetments observed in antenna field by Mar 1978	
Krivetsi IRBM Regt																			
Mobile Base Hqs (No BE No.)	-	-	-	1	-	1	-	-	No	Yes	2	2	-	-	-	-	-		
Rad Sta*	-	-	-	-	-	1	-	-	No	-	-	-	-	-	-	-	-	Facility formerly an IRBM Regt CP/Bldg (Same BE No.)	
Rad Xmitr*	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	1		
Lebedyn IRBM Regt																			
Mobile Base Hqs*	-	-	-	-	1	1	-	-	No	-	2*	2	-	-	-	-	2	Facility formerly an IRBM Regt CP/Bldg (Same BE No.) and only had 2 adj	

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REFERENCES

IMAGERY

All applicable satellite imagery acquired from [redacted] was used in preparation of this report. (S/WN) 25X1

RELATED DOCUMENTS

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